

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant : Sheikh A. Akbar  
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For : Method Of Forming Nanofibers On Ceramics And  
: The Ceramics Formed

APPENDIX

# METAL NANOWIRE AND METAL NANOPARTICLE

Publication number: JP2002067000

Publication date: 2002-03-06

Inventor: MAKITA YOJI; KAI OSAMU; OI KENTA; OKUBO AKIRA; HASHIMOTO NOZOMI

Applicant: NAY INST OF ADV IND & TECHNOL; TOMITA PHARMA

Classification:

- International: B82B1/00; B82B3/00; B82B1/00; B82B3/00; (IPC1-7) B82B1/00; B82B3/00

- European:

Application number: JP20000209414 20000829

Priority number(s): JP20000259414 20000829

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Abstract of JP2002087000

PROBLEM TO BE SOLVED: To provide metal nanowire and metal nanoparticles, and a manufacturing method thereof without using a mold or fine processing technique. SOLUTION: A method for manufacturing nanowire and/or nanoparticles consists of irradiating with an electron beam on metal nanowire supported by a carrier at one end thereof and a metal ion carrier.

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**Process for preparing aligned carbon nanotubes and metal nanolines in the nanotubes****Publication number:** TW444067B**Publication date:** 2001-07-01**Inventor:** SHR HAN-JANG (TW); TSAI SHANG-HUA (TW); JAU JR-WEI (TW); LI JAU-LIN (TW)**Applicant:** SHR HAN JANG (TW)**Classification:****- International:** C23C16/44; C23C16/44; (IPC1-7); C23C16/44**- European:****Application number:** TW18990108351 18990808**Priority number(s):** TW18990108351 18990805[Report a data error here](#)**Abstract of TW444067B**

The present invention provides a process for preparing aligned carbon nanotubes and metal nanolines in the nanotubes. The process includes subjecting a metal-coated or metal compound-coated substrate to chemical vapor deposition with a carbon-containing reaction gas in a microwave plasma enhanced system, so as to form a plurality of carbon nanotubes on the substrate and metal nanolines in the carbon nanotubes. The carbon nanotubes are perpendicular to the substrate and are parallel to each other.

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**Process for preparing small red bean milk**

**Publication number:** CN1419846

**Publication date:** 2003-08-28

**Inventor:** CAI ZIJIAN (CN)

**Applicant:** CAI ZIJIAN (CN)

**Classification:**

- **International:** A23L1/20; A23L1/20; (IPC1-7) A23L1/20

- **European:**

**Application number:** CN20011032235 20011110

**Priority number(s):** CN20011032235 20011119

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**Abstract of CN1419846**

A red bean milk is prepared from red bean through pretreating, mixing with water, grinding, separating milk from dregs, heating milk to 90-115 deg.C, mixing with sugar and filtering. Its advantages are natural red color and agreeable taste.

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**Method for synthesizing zirconium oxide nano wire****Publication number:** CN1358670**Publication date:** 2002-07-17**Inventor:** QIU XIANQING (CN); CAO HUAQIANG (CN); LUO BING (CN)**Applicant:** UNIV QINGHUA (CN)**Classification:****- International:** C01Q23/02; C01G25/00; (IPC1-7); C01Q23/02**- European:****Application number:** CN20021000281 20020111**Priority number(s):** CN20021000281 20020111**Report a data error here****Abstract of CN1358670**

In method for synthesizing zirconia nano wire,  $ZrOCl_2 \cdot 8H_2O$  and  $H_2C_2O_4 \cdot 2H_2O$  are used as raw material, the process includes the following steps: respectively preparing zirconium oxychloride ( $ZrOCl_2$ ) and oxalic acid ( $H_2C_2O_4$ ) aqueous solutions, under the condition of continuously stirring  $ZrOCl_2$  solution slowly adding  $H_2C_2O_4$  solution into the  $ZrOCl_2$  solution, then continuously stirring to obtain zirconium sol; then impregnating porous alumina membrane with zirconium sol for 10 min., pressing for 5 hr. at 1.3 MPa, taking out said membrane from sol, drying under the infrared lamp., and roasting for 5 hr. at 500 deg.C and normal pressure under the condition of argon atmosphere so as to obtain the zirconia nano wire array. Said method can synthesize zirconia nano wire whose diameter is 60-300 nano and length is 10 micrometers, and said product can possess extensive application range.

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